

Air Quality Program Vision

The air quality program is dedicated to ensuring healthy air quality for all Oregonians.

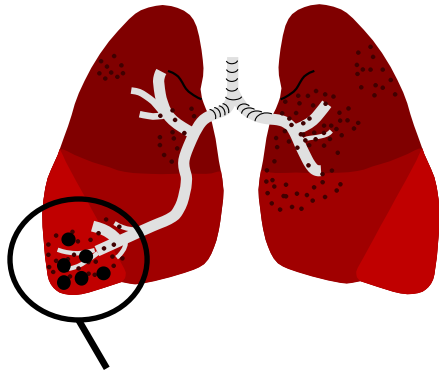
We do so by using good science, collaboration, and Oregon law.

Our work reflects our values of:

- *Leadership, partnership, integrity and commitment;*
- *Open and clear communication;*
- *Consistent implementation of federal and state regulations; and*
- *Empowering skilled staff to solve problems.*

Air Pollutants of Concern in Oregon

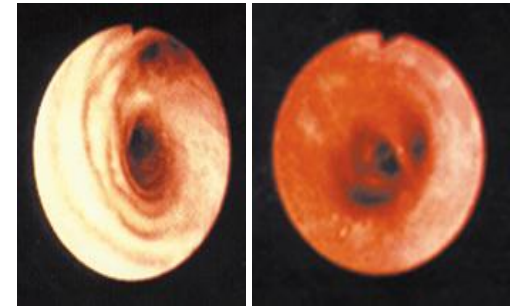
Particulate Matter



Fine particles enter deeply into the lungs



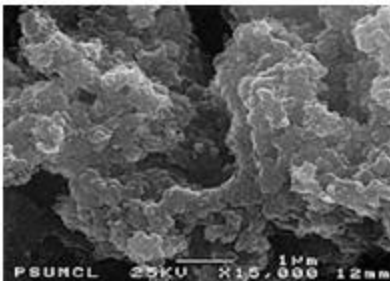
Ground Level Ozone



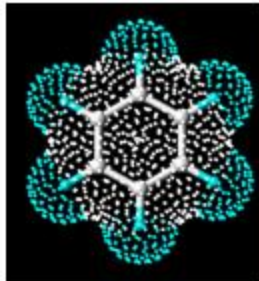
Healthy Airway Inflamed Airway

Pollution Affecting Climate Change and Ecosystems

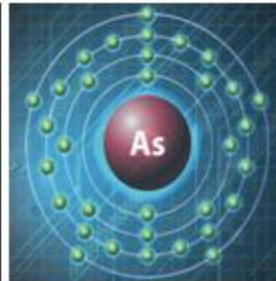
Toxic Air Pollutants



Diesel Particulate



Benzene



Arsenic



Air Quality Program



Federal – State Roles

Clean Air Act

Criteria Pollutants

EPA health-based standards
Ozone, PM, Lead, CO, SO₂, NO₂

Air Toxics

Federal technology-based standards with follow-up risk review

National Emission Standards for Hazardous Air Pollutants
New Source and Existing Source Performance Standards

Permitting

Title V Operating Permits

Air Contaminant Discharge Permits

Engines and Fuels

Federal Motor Vehicle Emission Stds

Federal Fuel Stds. Gasoline & Diesel

Oregon Initiatives

Air Toxics

DEQ Health Based Benchmarks

Geographic assessment Portland Air Toxics Solutions

Monitoring

Clean Diesel Program

New Health Based Permitting Regulations

Motor Vehicles

Clean Cars Program

Vehicle Inspection & Maintenance

Climate Change

Clean Power Plan

Clean Fuels
(low carbon)

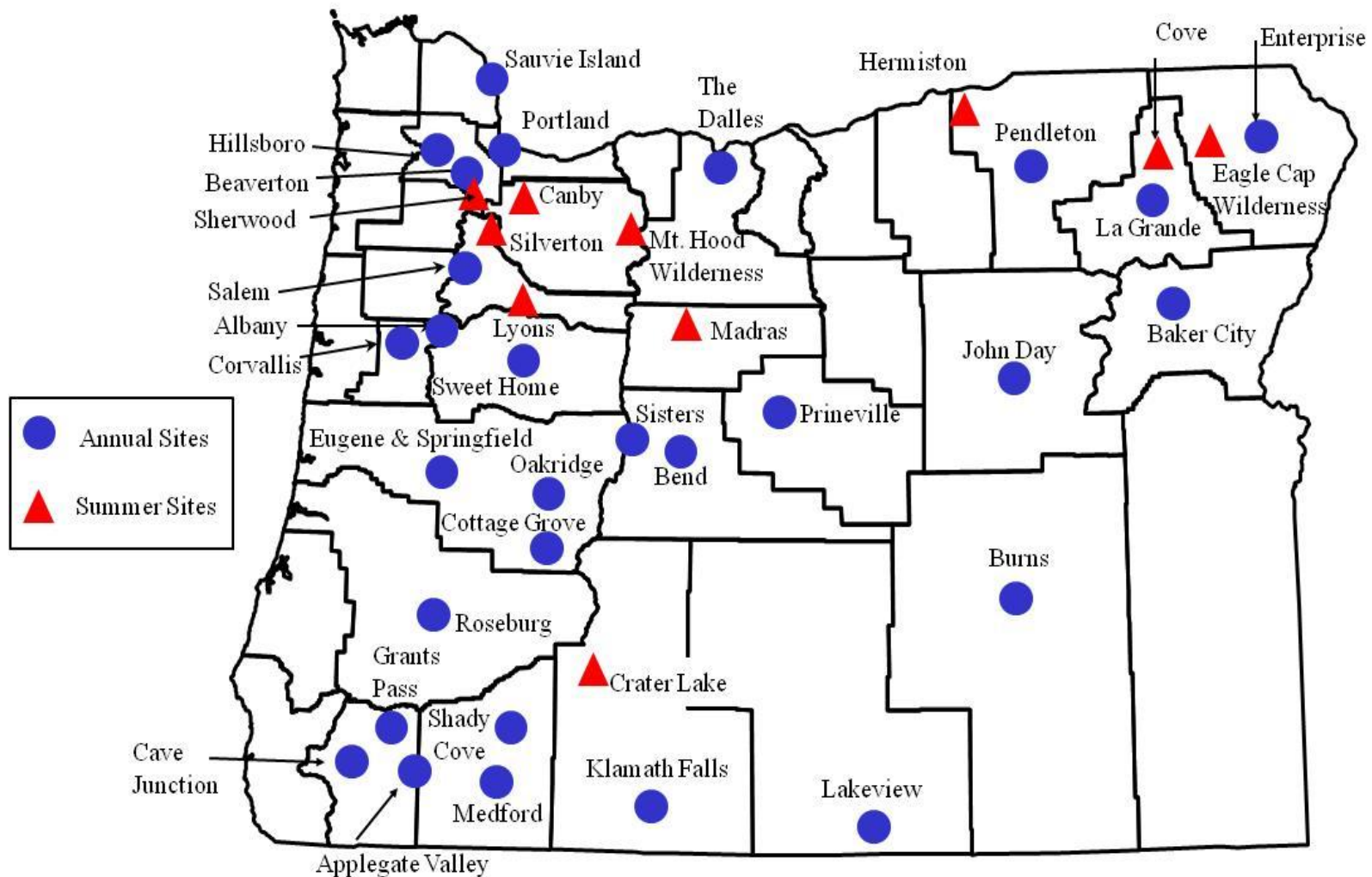
Legislative Initiatives
(i.e. Cap & Trade Study)

GHG Emission Reporting

Multi-Pollutant Reduction Strategies

Assessing Air Quality

2015 Oregon Air Quality Monitoring Network



Air Toxics Monitoring



Air toxics monitoring equipment

Longer-term trend monitors

- Portland
- La Grande

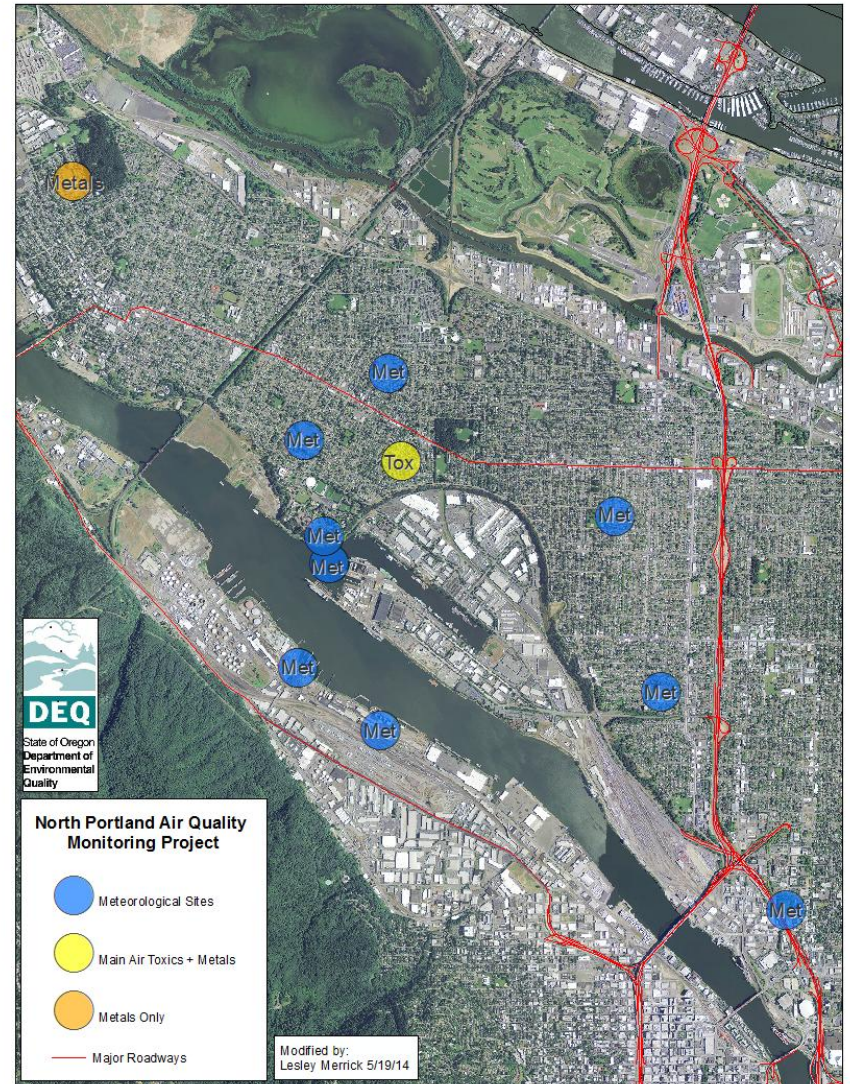
Year-long assessments

- Medford
- Klamath Falls
- Hillsboro
- North Portland

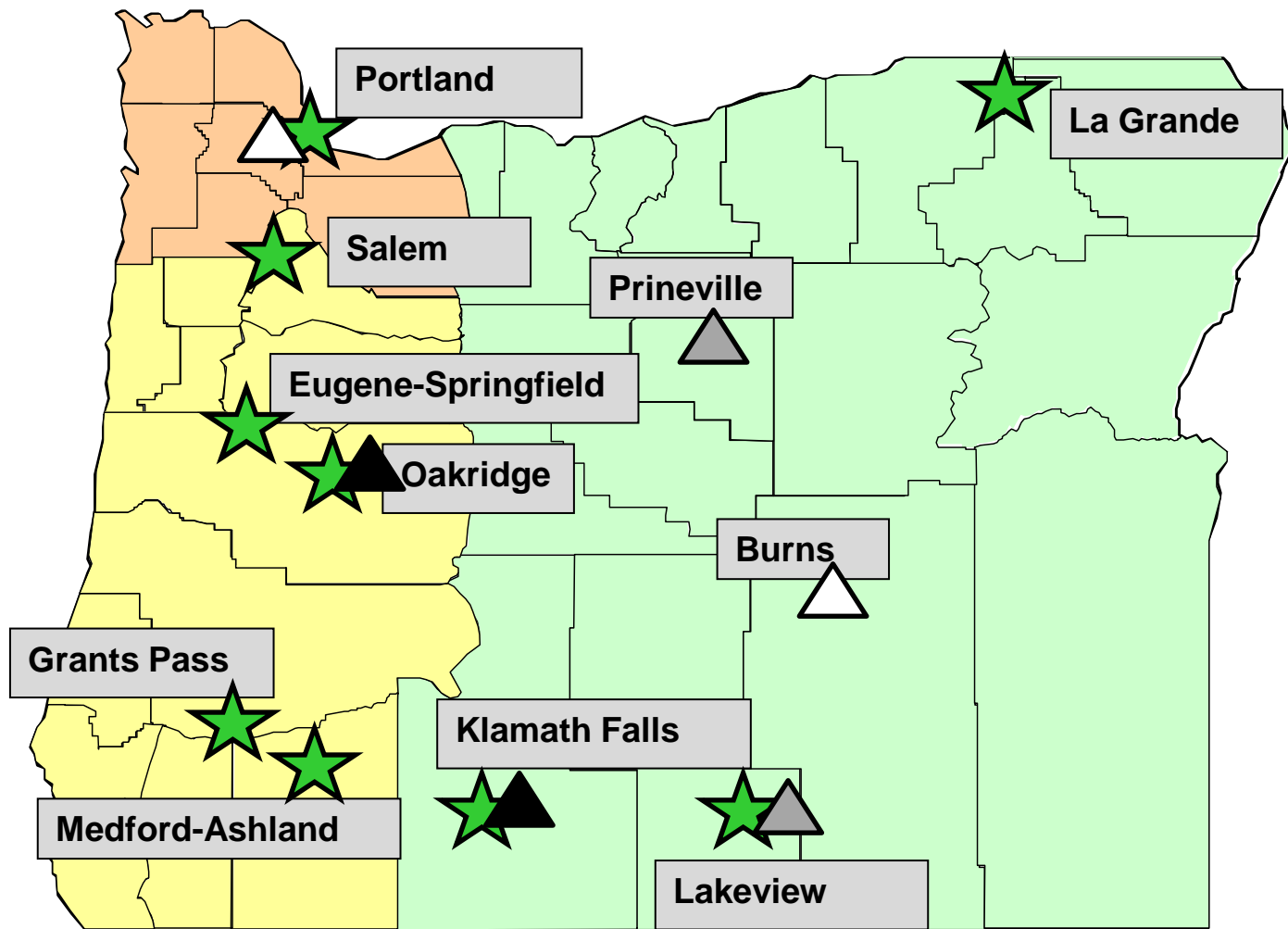
Special Studies

- North Portland, SE Portland

Community air toxics assessment in North Portland



Progress Meeting Federal Air Standards



Ozone and PM10
attainment &
maintenance
areas



PM 2.5 non-
attainment
areas



Violating PM 2.5 but not
officially designated non-
attainment



PM2.5 Areas
of Concern

Communities Working to Reduce Particulate Pollution



Smoke inversion over Oakridge

- Federally required attainment plans
 - Klamath Falls
 - Oakridge
- Particulate prevention plans
 - Lakeview
 - Washington County
 - Prineville
 - Burns



Lakeview PM2.5 Advisory Committee



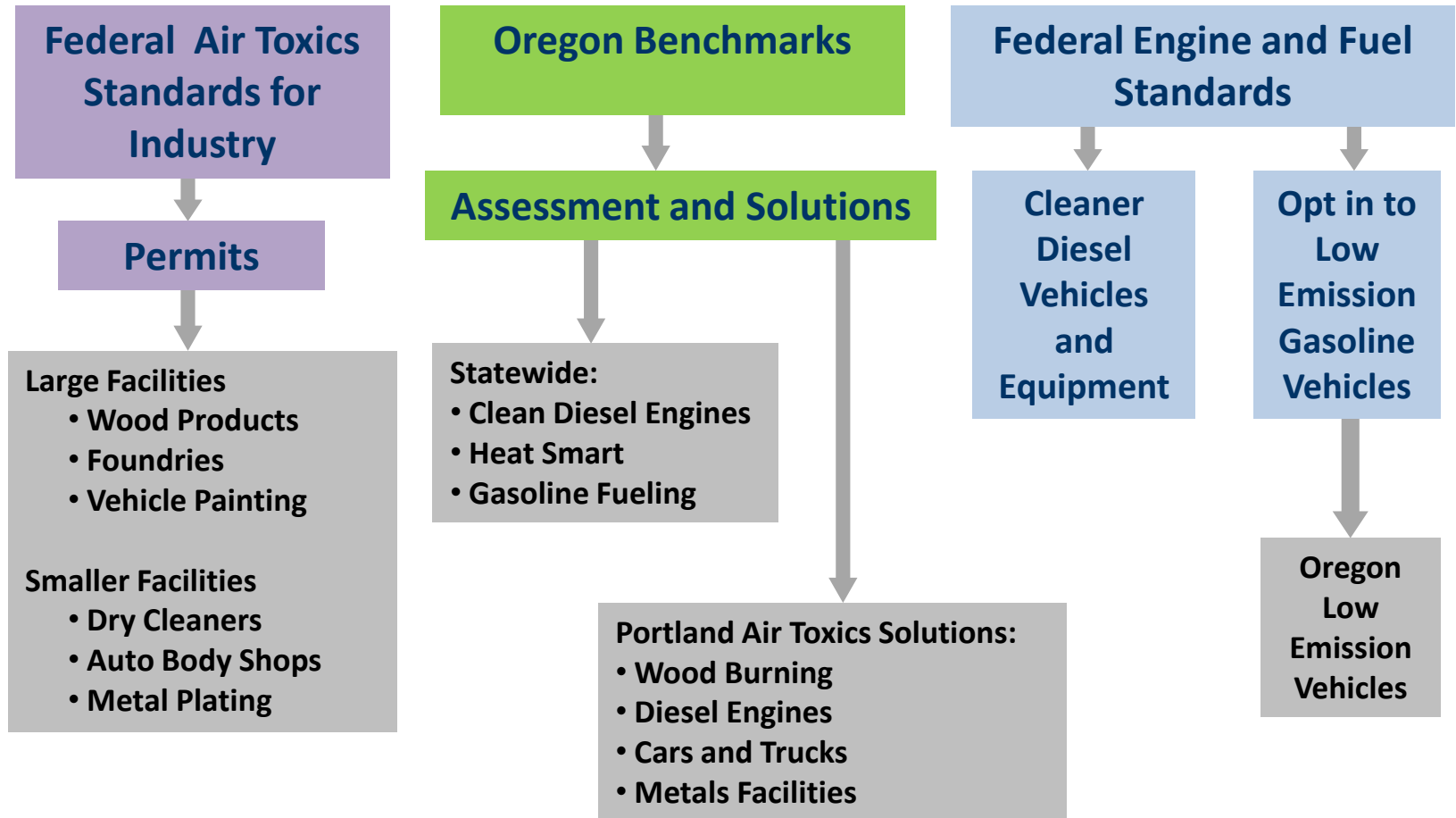
Klamath Falls Community Burn Advisory Sign

LRAPA

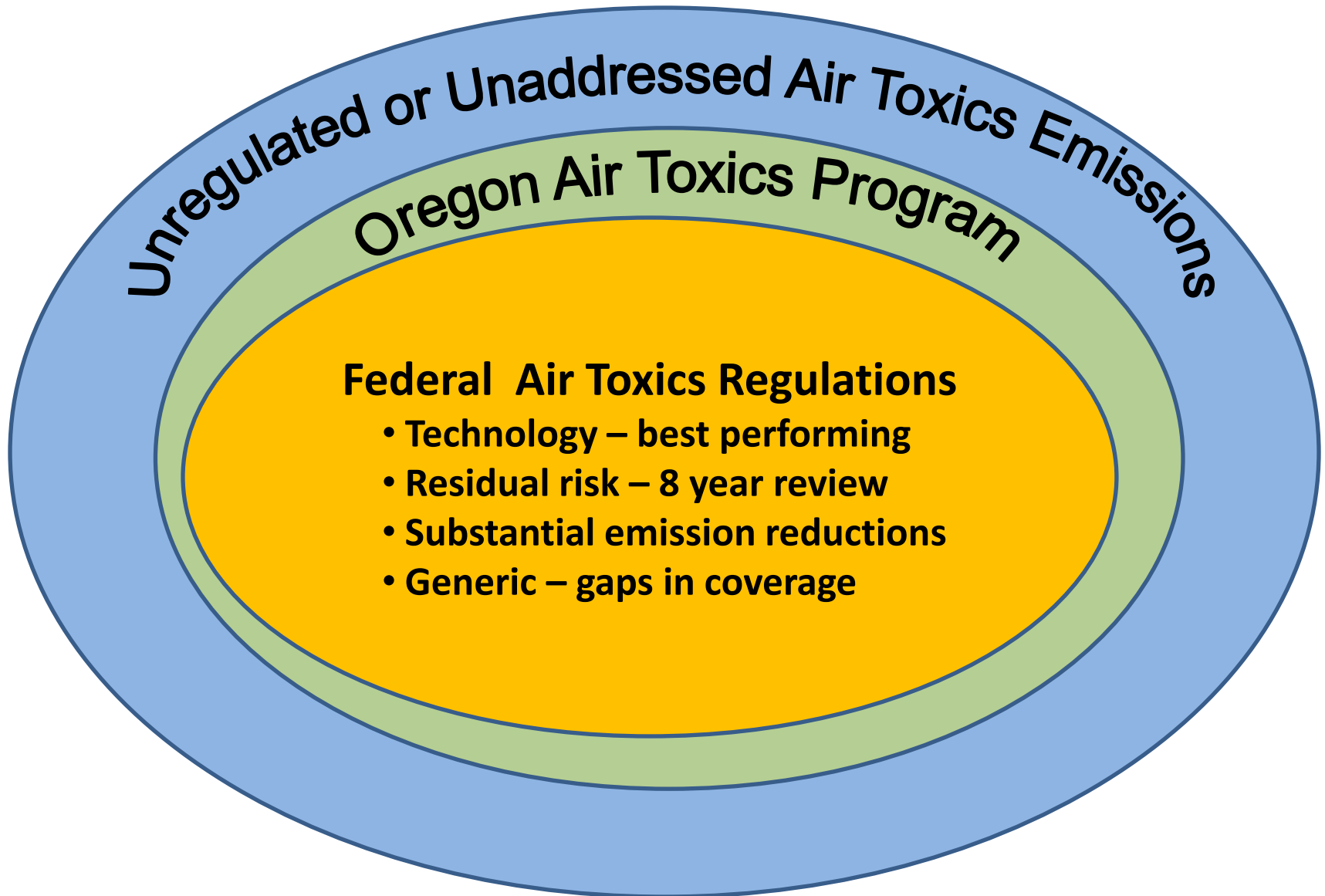
Sources of toxic air pollutants



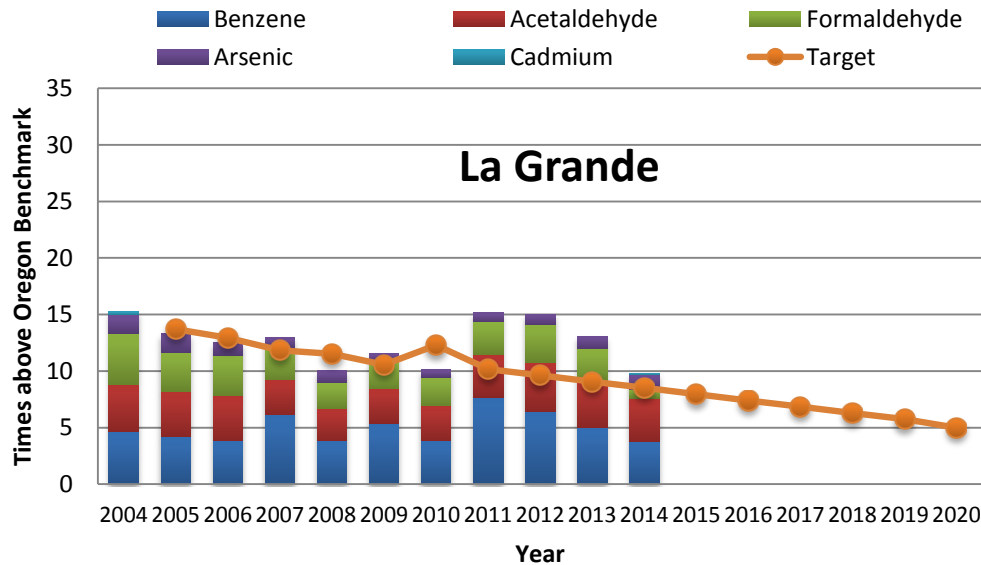
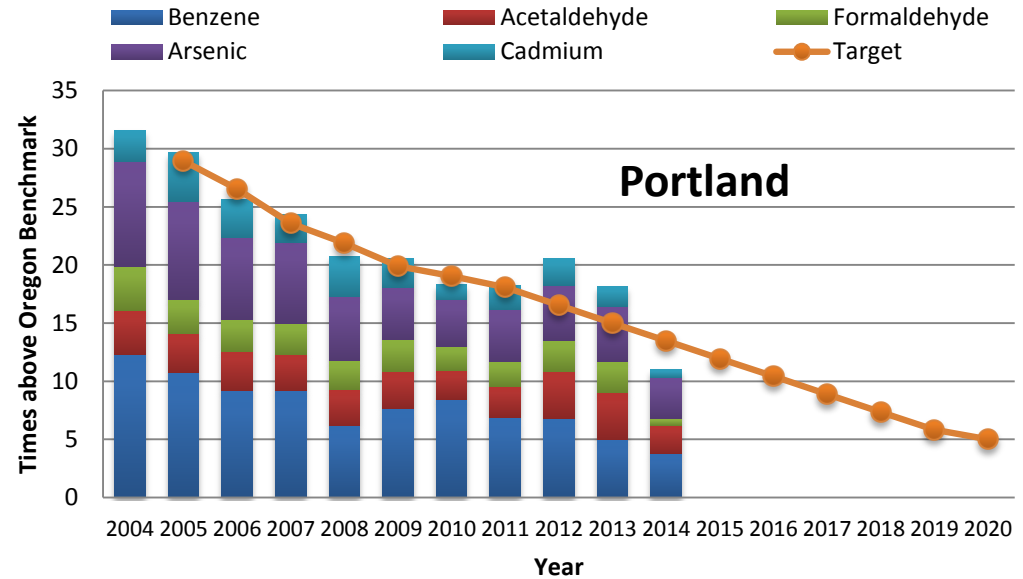
Oregon's Air Toxics Program



What is the Industrial Facility Risk Gap?



Monitored Air Toxics Trends



	Particulate	Air Toxics	Ozone	Greenhouse Gases	Regional Haze/Visibility
 Clean engines	✓	✓	✓	✓	✓
 Clean fuels	✓	✓	✓	✓	✓
 Smoke controls	✓	✓			✓
 Industrial regulations	✓	✓	✓	✓	✓